

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-12 (Canceled).

Claim 13. (Previously Amended) A method of cleaning a substrate of a liquid crystal display panel comprising:

jetting deionized water that carries ultrasonic waves onto a side surface of the substrate;

brushing the side surface of the substrate with a brush that extends partially along the side surface of the substrate; and

cleaning upper and lower surfaces of the substrate.

Claim 14. (Previously Presented) The method of claim 13, wherein the brush is rotatable.

Claim 15. (Canceled).

Claim 16. (Previously Amended) The method of claim 13, wherein cleaning the upper and lower surfaces of the substrate comprises:

rotating cleaning brushes on the upper and lower surface of substrate.

Claim 17 (Canceled).

Claim 18. (Previously Presented) The method of claim 16, wherein the cleaning brushes are arranged at the upper and lower surfaces of the substrate, respectively.

Claims 19 -22 (Canceled).

Claim 23. (Previously Amended) A method of cleaning a substrate of a liquid crystal display panel comprising:

removing foreign substances on a side surface of the substrate by jetting deionized water that carries ultrasonic waves onto the side surface of the substrate with a water jet device and brushing the side surface of the substrate with cleaning brushes that extend partially along the side surface of the substrate; and

removing foreign substances on the upper and lower surfaces of the substrate by brushing the upper and lower surface of the substrate with brushes.

Claim 24. (Original) The method of claim 22, wherein the water jet device causes vibration on the side surface of the substrate.

Claim 25. (Original) The method of claim 23, wherein the vibration is generated by ultrasonic waves.

Claims 26 and 27 (Canceled).

Claim 28. (Currently Amended) A method of cleaning a substrate having an upper surface and a lower surface separated by at least two opposing side surfaces, the method comprising:

brushing at least two opposing side surfaces with cleaning brushes that extend partially along the at least two opposing side surfaces of the substrate;

cleaning at least one of the upper and lower surfaces; and

spraying water that carries ultrasonic waves onto the at least two brushed side surfaces.

Claim 29. (Previously Presented) The method of claim 28, further including brushing at least two opposing side surfaces before brushing at least one of the upper and lower surfaces.

Claim 30. (Previously Presented) The method of claim 28, wherein the water includes deionized water.

Claim 31. (Canceled)

Claim 32. (Previously Presented) The method of claim 28, wherein cleaning at least one of the upper and lower surfaces includes brushing the at least one of the upper and lower surfaces.